

# Anti-Cdc25C Picoband Antibody

Catalog # ABO12535

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                           |
| <b>Primary Accession</b> | <a href="#">P30307</a>                                                                                       |
| <b>Host</b>              | Rabbit                                                                                                       |
| <b>Reactivity</b>        | Human                                                                                                        |
| <b>Clonality</b>         | Polyclonal                                                                                                   |
| <b>Format</b>            | Lyophilized                                                                                                  |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for M-phase inducer phosphatase 3(CDC25C) detection. Tested with WB in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                         |

## Additional Information

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| <b>Gene ID</b>                  | 995                                                                                                                                                                                                  |
| <b>Other Names</b>              | M-phase inducer phosphatase 3, 3.1.3.48, Dual specificity phosphatase Cdc25C, CDC25C                                                                                                                 |
| <b>Calculated MW</b>            | 53365                                                                                                                                                                                                |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human                                                                                                                                                                   |
| <b>Subcellular Localization</b> | Nucleus .                                                                                                                                                                                            |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                            |
| <b>Protein Name</b>             | M-phase inducer phosphatase 3                                                                                                                                                                        |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                  |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human Cdc25C (435-473aa MHHQDHKTELLRCRSQSKVQEGERQLREQIALLVKDMSP), different from the related mouse sequence by ten amino acids. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                         |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins.                                                                                                                                                             |
| <b>Storage</b>                  | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.                   |

## Protein Information

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | CDC25C                                                                                                                                                                                                                                                                                                                                                                                      |
| Function          | Functions as a dosage-dependent inducer in mitotic control. Tyrosine protein phosphatase required for progression of the cell cycle (PubMed: <a href="#">8119945</a> ). When phosphorylated, highly effective in activating G2 cells into prophase (PubMed: <a href="#">8119945</a> ). Directly dephosphorylates CDK1 and activates its kinase activity (PubMed: <a href="#">8119945</a> ). |
| Cellular Location | Nucleus                                                                                                                                                                                                                                                                                                                                                                                     |

## Background

M-phase inducer phosphatase 3 is an enzyme that in humans is encoded by the *CDC25C* gene. This gene is highly conserved during evolution and it plays a key role in the regulation of cell division. The encoded protein is a tyrosine phosphatase and belongs to the Cdc25 phosphatase family. It directs dephosphorylation of cyclin B-bound CDC2 (CDK1) and triggers entry into mitosis. Also, it is thought to suppress p53-induced growth arrest. Multiple alternatively spliced transcript variants of this gene have been described, however, the full-length nature of many of them is not known.

## Images



Western blot analysis of Cdc25C expression in HELA whole cell lysates (lane 1), SW620 whole cell lysates (lane 2) and MCF-7 whole cell lysates (lane 3). Cdc25C at 53KD was detected using rabbit anti- Cdc25C Antigen Affinity purified polyclonal antibody (Catalog # ABO12535) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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